

AMENDMENT NO. 04

Date: June 10, 2015

Project: Dry Dock #3 Pump Well Repairs
Portsmouth Naval Shipyard
Kittery, Maine
eProjects Work Order No.: 1332591
Construction Contract No.: N40085-15-C-6109

This Amendment is issued prior to receipt of the bids and does hereby become a part of the Contract Documents, and in case of conflict, it shall supersede original project manual and drawings.

The work of the Amendment shall comply with all contract requirements including Division 00 and 01 specifications and the following specific items noted.

Each bidder shall be responsible for issuing information contained herein to sub-contractors and suppliers to ensure that his/her proposal covers all work required by the Contract Documents including this Amendment.

SUMMARY OF CHANGES

DRAWINGS

1. M-301

- a. **Replace** General Sheet Note 2 with the following: "FURNISH TWO TEMPORARY DRAINAGE PUMPS (TDP-1 AND TDP-2) FOR WORK UNDER OPTION 1. PUMPS SHALL BE BASIS OF DESIGN AS SCHEDULED ON SHEET M-601 OR APPROVED EQUIVALENT. FURNISH TWO, 20 FOOT LONG AND TWO, 10 FOOT LONG 6" DIAMETER RUBBER DISCHARGE HOSES WITH BASIS OF DESIGN BAUER QUICK DISCONNECT (QD) FITTINGS OR APPROVED EQUIVALENT. HOSES SHALL BE BASIS OF DESIGN HOSECRAFT MODEL RN1 RATED FOR 100 PSIG OR APPROVED EQUIVALENT. FURNISH TWELVE, 20 FOOT LONG SECTIONS OF 6" DIAMETER SCHEDULE 40 GALVANIZED STEEL PIPING WITH QD FITTINGS ON EACH END. FURNISH TWO, 6" DIAMETER GALVANIZED ELBOWS WITH QD FITTINGS. PROVIDE 6" DIAMETER HDPE PIPING PERMANENTLY INSTALLED ON DRY DOCK WALL AS INDICATED ON DETAIL B4/M-302. VERIFY HOSE AND PIPE LENGTHS WITH CONTRACTING OFFICER. TEMPORARY DRAINAGE PUMPS, HOSES AND PIPING SHALL BE TURNED OVER TO THE NAVY AT THE END OF THE CONTRACT. REFER TO DETAIL B4/M-302."
- b. **Add** to Keynote 5 "Provide Limatorque MX electronic valve actuator. Actuator shall be 440 volt, 3-phase with a NEMA 4X enclosure."

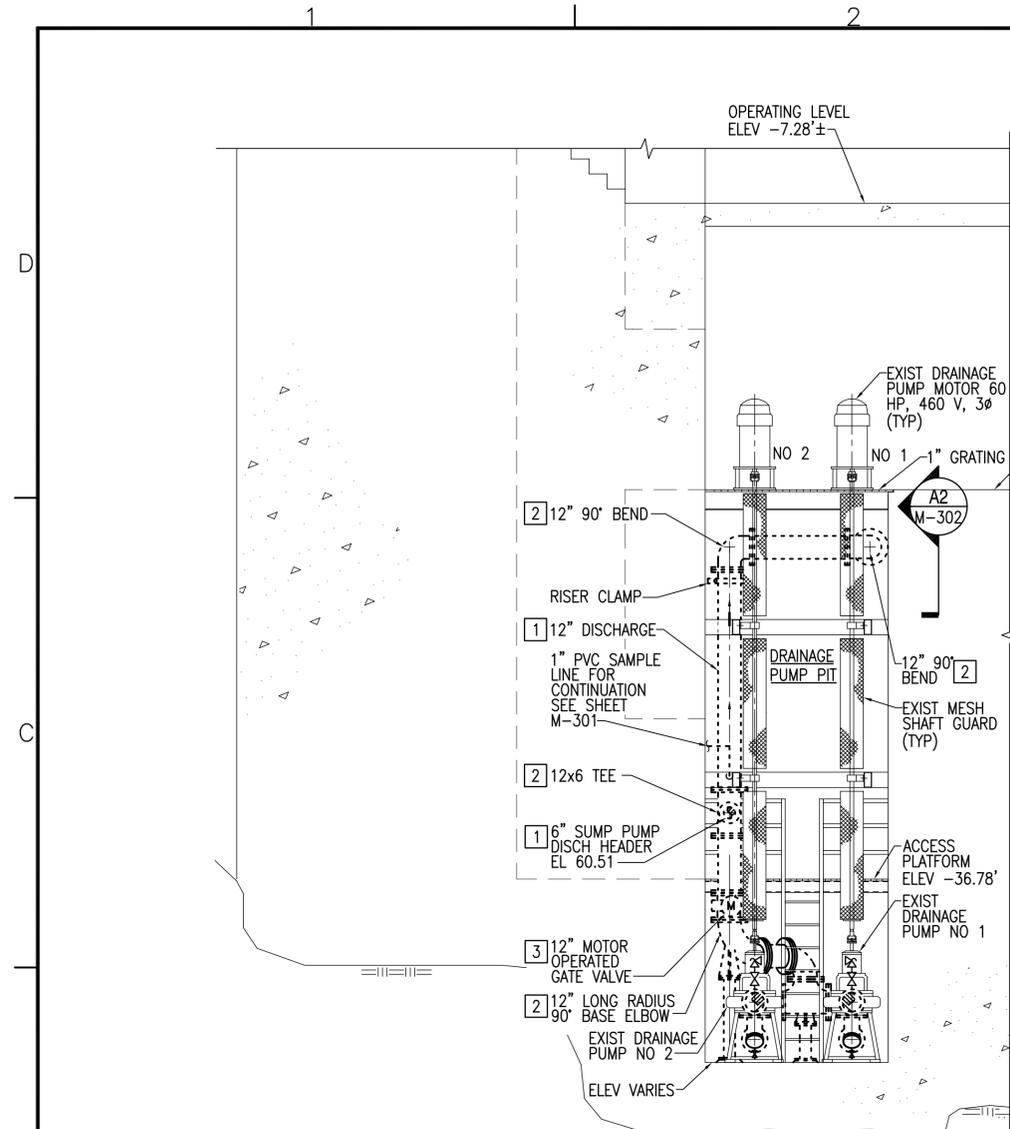
2. M-302

- a. **Replace** drawing with attached. Details A4 and B4 have been added.

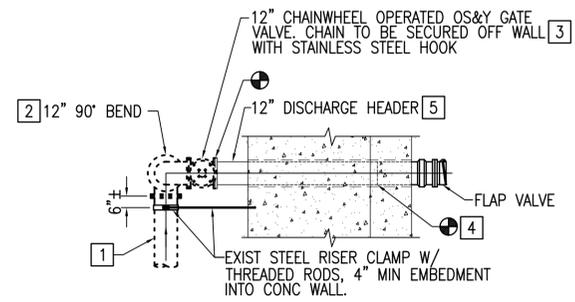
3. M-601 (this item replaces Item 14.b of Amendment No. 02)

- a. Temporary Drainage Pump/Schedule (Option 1):
- 1) **REPLACE** "Sump Pit" with "Dry Dock Sump (two locations)."
 - 2) In 'Type' Column, **INSERT** "Submersible"
 - 3) In 'GPM' Column, **INSERT** "1000" (3490 RPM)
 - 4) In 'Total Head' Column, **INSERT** "60 feet"
 - 5) In HP Column, **INSERT** "minimum of 27"
 - 6) In Basis of Design Column, **INSERT** "Flygt model 2670-228"
 - 7) **ADD** Note 2, "Provide permanently installed piping in the dock and furnish non-collapsible hose to connect the pump to the vertical, permanent, HDPE pipe. Furnish hoses and galvanized pipe at the deck coping level to connect to the HDPE pipe and discharge to the river. Refer to Details A4/M-302 and B4/M-302."

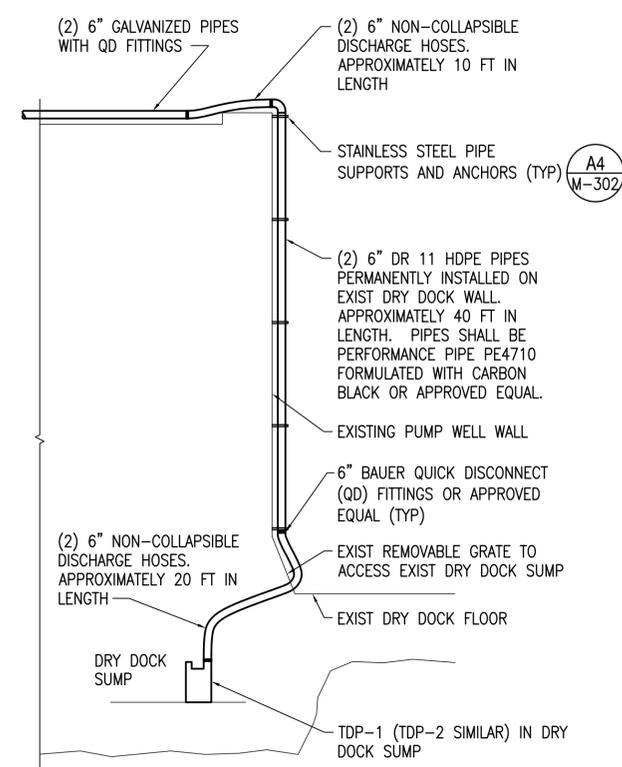
END OF AMENDMENT NO. 04



LONGITUDINAL SECTION
SCALE: 1/4"=1'-0" M-301 **B2**

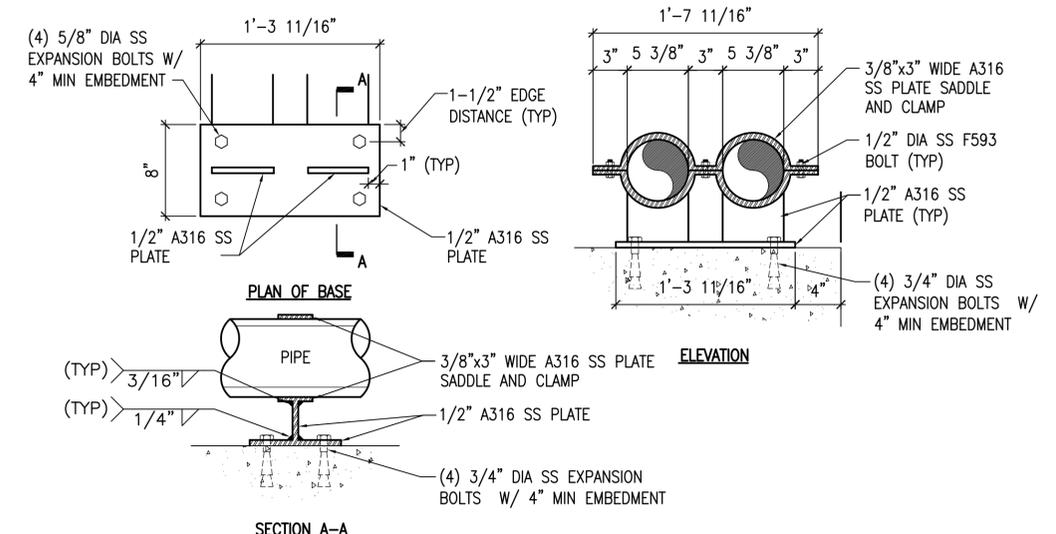


SECTION
SCALE: 1/4"=1'-0" **A2**



- NOTES:**
1. VERIFY PIPE LENGTHS IN FIELD. COORDINATE WITH THE CONTRACTING OFFICER.
 2. COORDINATE LOCATION OF 6" HDPE PIPE IN DRY DOCK WITH CONTRACTING OFFICER.
 3. TEMPORARY DRAINAGE PUMPS, 6" NON-COLLAPSIBLE DISCHARGE HOSES AND 6" GALVANIZED PIPES SHALL BE INSTALLED BY THE NAVY.

DETAIL AT TEMPORARY DRAINAGE PUMPS
NOT TO SCALE M-301 **B4**



DRAINAGE DISCHARGE PIPE SUPPORT DETAIL
SCALE: 1-1/2"=1'-0" M-302 **A4**

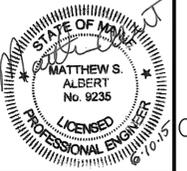
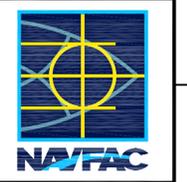
GENERAL SHEET NOTE

1. REFER TO SEQUENCING NOTES ON SHEET G-003 FOR ITEMS AFFECTING MECHANICAL WORK.

KEYNOTES (THIS SHEET ONLY)

- 1 REMOVE EXISTING DUCTILE IRON DRAINAGE PIPE AND REPLACE WITH PP-R PIPE.
- 2 REMOVE EXISTING DUCTILE IRON DRAINAGE FITTING AND REPLACE WITH PP-R FITTING.
- 3 REMOVE EXISTING CAST-IRON VALVE AND REPLACE WITH STAINLESS STEEL VALVE.
- 4 EXTEND 12" DISCHARGE HEADER THROUGH OUTER FACE OF SHEETING AND PROVIDE FLAP VALVE. PIPE SHALL BE PP-R.
- 5 PROVIDE PIPING RE-INFORCEMENT SYSTEM ON EXTERIOR OF EXPOSED EXISTING PIPE TO REMAIN, BASIS OF DESIGN "ENCON, METALCLAD, DURA-WRAP" OR APPROVED EQUIVALENT. INSTALL RE-INFORCEMENT SYSTEM IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

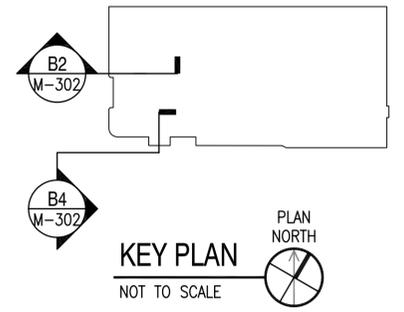
REV	DATE	DESCRIPTION	BY	APP
1	JUN 10, 2015	ISSUED WITH AMENDMENT 04		PTD
2	JUN 07, 2015	FINAL SUBMISSION		PTD
3				APPR



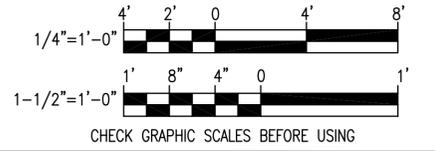
APPROVED	A/E INFO
FOR COMMANDER NAVFAC	ACTIVITY
SEE G-001 FOR DDCB BLOCK	
SATISFACTORY TO DATE 01/07/15	
DES SMC DRW RDA CHK MSA	
PM/DM R C PANTEL	
BRANCH MANAGER AMIN BAHROUR	
CHIEF ENG/ARCH LCDR J ROCHE	
FIRE PROTECTION P BAKAJ	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME
NAVAL SHIPYARD
KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS
OPTION 1 - MECHANICAL DRAINAGE PIPING SECTIONS 2



GRAPHIC SCALES



MAXIMO No:	
EPROJECT NO.:	1332591
CONSTR. CONTR. NO.:	N40085-15-C-6109
NAVFAC DRAWING NO.:	12686314
SHEET 46 OF 67	
M-302 DD3-14-705	